

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

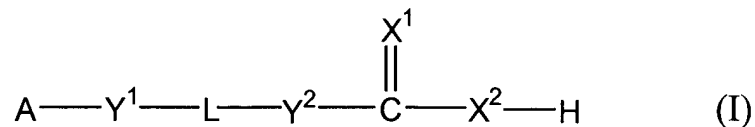
Listing of Claims:

RECEIVED

NOV 24 2003

TECH CENTER 1600/2900

1. (Currently Amended) A compound of formula (I):



wherein

A is a cyclic moiety selected from the group consisting of C₃₋₁₄ cycloalkyl, 3-14 membered heterocycloalkyl, C₄₋₁₄ cycloalkenyl, 3-14 membered heterocycloalkenyl, aryl, and heteroaryl; the cyclic moiety being optionally substituted with **1-3 substituents, each of which is independently selected from the group consisting of** alkyl, alkenyl, alkynyl, alkoxy, hydroxyl, hydroxylalkyl, halo, haloalkyl, amino, alkylcarbonyloxy, alkyloxycarbonyl, alkylcarbonyl, alkylsulfonylamino, aminosulfonyl, ~~or~~ **and** alkylsulfonyl;

each of X¹ and X², independently, is O or S;

each of Y¹ and Y², independently, is -CH₂-, -O-, -S-, -N(R^a)-, -N(R^a)-C(O)-O-, -O-C(O)-N(R^a)-, -N(R^a)-C(O)-N(R^b)-, -O-C(O)-O-, or a bond; each of R^a and R^b, independently, being hydrogen, alkyl, alkenyl, alkynyl, alkoxy, hydroxylalkyl, hydroxyl, or haloalkyl;

L is a straight C₃₋₁₂ hydrocarbon chain optionally containing at least one double bond, at least one triple bond, or at least one double bond and one triple bond; said hydrocarbon chain being optionally substituted with C₁₋₄ alkyl, C₂₋₄ alkenyl, C₂₋₄ alkynyl, C₁₋₄ alkoxy, hydroxyl,

halo, amino, nitro, cyano, C₃₋₅ cycloalkyl, 3-5 membered heterocycloalkyl, monocyclic aryl, 5-6 membered heteroaryl, C₁₋₄ alkylcarbonyloxy, C₁₋₄ alkyloxycarbonyl, C₁₋₄ alkylcarbonyl, or formyl; and further being optionally interrupted by -O-, -N(R^c)-, -N(R^c)-C(O)-O-, -O-C(O)-N(R^c)-, -N(R^c)-C(O)-N(R^d)-, or -O-C(O)-O-; each of R^c and R^d, independently, being hydrogen, alkyl, alkenyl, alkynyl, alkoxy, hydroxylalkyl, hydroxyl, or haloalkyl; provided that when L contains two or more double bonds, the double bonds are not adjacent to each other; that when L contains three double bonds, said hydrocarbon chain is further substituted with C₁₋₄ alkyl, C₂₋₄ alkenyl, C₂₋₄ alkynyl, C₁₋₄ alkoxy, hydroxyl, halo, amino, nitro, cyano, C₃₋₅ cycloalkyl, 3-5 membered heterocycloalkyl, monocyclic aryl, 5-6 membered heteroaryl, C₁₋₄ alkylcarbonyloxy, C₁₋₄ alkyloxycarbonyl, C₁₋₄ alkylcarbonyl, or formyl; and further provided that when L contains zero double bonds, one double bond, or two conjugated double bonds and A is substituted phenyl or unsubstituted aryl, Y¹ is not a bond or CH₂, and Y² is not a bond or CH₂; or a salt thereof.

2. (Original) The compound of claim 1, wherein X¹ is O.
3. (Original) The compound of claim 1, wherein X² is O.
4. (Original) The compound of claim 1, where each of X¹ and X² is O.

5. (Original) The compound of claim 1, wherein each of Y^1 and Y^2 , independently, is $-CH_2$, $-O-$, $-N(R^a)-$, or a bond.

6. (Canceled)

7. (Original) The compound of claim 1, wherein L is an unsaturated C_{4-8} hydrocarbon chain containing at least one double bond and no triple bond, said unsaturated hydrocarbon chain being optionally substituted with C_{1-2} alkyl, C_{1-2} alkoxy, hydroxyl, $-NH_2$, $-NH(C_{1-2} \text{ alkyl})$, or $-N(C_{1-2} \text{ alkyl})_2$, or $-N(C_{1-2} \text{ alkyl})_2$.

8. (Original) The compound of claim 7, wherein the double bond is in trans configuration.

9-11. (Canceled)

12. (Original) The compound of claim 1, wherein A is phenyl, naphthyl, indanyl, or tetrahydronaphthyl.

13. (Currently Amended) The compound of claim 1, wherein A is phenyl optionally substituted with 1-3 substituents, each of which is independently selected from the group consisting of alkyl, alkenyl, hydroxyl, hydroxylalkyl, halo, haloalkyl, ~~or~~ and amino.

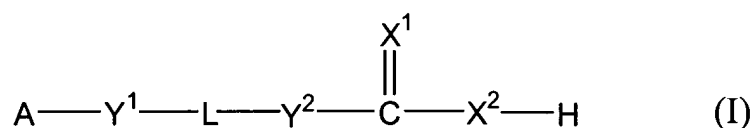
14-15. (Canceled)

16. (Original) The compound of claim 13, wherein L is an unsaturated C₄₋₈ hydrocarbon chain containing only double bonds in trans configuration, said unsaturated hydrocarbon chain being optionally substituted with C₁₋₂ alkyl, C₁₋₂ alkoxy, hydroxyl, -NH₂, -NH(C₁₋₂ alkyl), or -N(C₁₋₂ alkyl)₂.

17. (Original) The compound of claim 16, wherein X¹ is O; X² is O; and each of Y¹ and Y², independently, is -CH₂-, -O-, -N(R^a)-, or a bond.

18-21. (Canceled)

22. (Currently Amended): A compound of formula (I):



wherein

A is a cyclic moiety selected from the group consisting of aryl and heteroaryl; the cyclic moiety being optionally substituted with alkyl, alkenyl, alkynyl, ~~alkoxy~~, hydroxylalkyl, or amino;

each of X¹ and X², independently, is O or S;

each of Y^1 and Y^2 , independently, is $-CH_2-$, $-O-$, $-S-$, $-N(R^a)-$, $-N(R^a)-C(O)-O-$, $-O-C(O)-N(R^a)-$, $-N(R^a)-C(O)-N(R^b)-$, $-O-C(O)-O-$, or a bond; each of R^a and R^b , independently, being hydrogen, alkyl, hydroxylalkyl, or haloalkyl;

L is a straight C_{3-12} hydrocarbon chain optionally containing at least one double bond, at least one triple bond, or at least one double bond and one triple bond; said hydrocarbon chain being optionally substituted with C_{1-4} alkyl, C_{2-4} alkenyl, C_{2-4} alkynyl, C_{1-4} alkoxy, or amino, and further optionally interrupted by $-O-$ or $-N(R^c)-$, where R^c is hydrogen, alkyl, hydroxylalkyl, or haloalkyl; provided that when L contains two or more double bonds, the double bonds are not adjacent to each other; that when L contains three double bonds, said hydrocarbon chain is substituted with C_{1-4} alkyl, C_{2-4} alkenyl, C_{2-4} alkynyl, C_{1-4} alkoxy, or amino; and further provided that when L contains zero double bonds, one double bond, or two conjugated double bonds and A is C_{1-4} alkyl phenyl, C_{1-4} alkoxy phenyl, or unsubstituted aryl, Y^1 is not a bond or CH_2 , and Y^2 is not a bond or CH_2 ;

or a salt thereof.

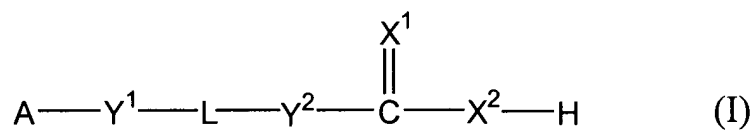
23-24. (Canceled)

25. (Original) The compound of claim 22, wherein L is an unsaturated C_{4-8} hydrocarbon chain containing only double bonds in trans configuration, said unsaturated hydrocarbon chain being optionally substituted with C_{1-2} alkyl, C_{1-2} alkoxy, hydroxyl, $-NH_2$, $-NH(C_{1-2} \text{ alkyl})$, or $-N(C_{1-2} \text{ alkyl})_2$.

26. (Original) The compound of claim 25, where in X^1 is O; X^2 is O; and each of Y^1 and Y^2 , independently, is $-CH_2-$, $-O-$, $N(R^a)-$, or a bond.

27-79. (Canceled)

80. (Currently Amended) A pharmaceutical composition, comprising an effective amount of a compound of formula (I):



wherein

A is a cyclic moiety selected from the group consisting of C_{3-14} cycloalkyl, 3-14 membered heterocycloalkyl, C_{4-14} cycloalkenyl, 3-14 membered heterocycloalkenyl, aryl, and heteroaryl; the cyclic moiety being optionally substituted with **1-3 substituents, each of which is independently selected from the group consisting of** alkyl, alkenyl, alkynyl, alkoxy, hydroxyl, hydroxylalkyl, halo, haloalkyl, amino, alkylcarbonyloxy, alkyloxycarbonyl, alkylcarbonyl, alkylsulfonylamino, aminosulfonyl, ~~or~~ **and** alkylsulfonyl;

each of X^1 and X^2 , independently, is O or S;

each of Y^1 and Y^2 , independently, is $-CH_2-$, $-O-$, $-S-$, $-N(R^a)-$, $-N(R^a)-C(O)-O-$, $-O-C(O)-N(R^a)-$, $-N(R^a)-C(O)-N(R^b)-$, $-O-C(O)-O-$, or a bond; each of R^a and R^b , independently, being hydrogen, alkyl, alkenyl, alkynyl, alkoxy, hydroxylalkyl, hydroxyl, or haloalkyl;

L is a straight C₃₋₁₂ hydrocarbon chain containing at least one double bond, or at least one double bond and one triple bond; said hydrocarbon chain being optionally substituted with C₁₋₄ alkyl, C₂₋₄ alkenyl, C₂₋₄ alkynyl, C₁₋₄ alkoxy, hydroxyl, halo, amino, nitro, cyano, C₃₋₅ cycloalkyl, 3-5 membered heterocycloalkyl, monocyclic aryl, 5-6 membered heteroaryl, C₁₋₄ alkylcarbonyloxy, C₁₋₄ alkyloxycarbonyl, C₁₋₄ alkylcarbonyl, or formyl; and further being optionally interrupted by -O-, -N(R^c)-, -N(R^c)-C(O)-O-, -O-C(O)-N(R^c)-, -N(R^c)-C(O)-N(R^d)-, or -O-C(O)-O-; each of R^c and R^d, independently, being hydrogen, alkyl, alkenyl, alkynyl, alkoxy, hydroxylalkyl, hydroxyl, or haloalkyl; or a salt thereof; and a pharmaceutically acceptable carrier.

81. (Currently Amended) The ~~compound~~ **pharmaceutical composition** of claim 80, wherein X¹ is O.

82. (Currently Amended) The ~~compound~~ **pharmaceutical composition** of claim 80, wherein X² is O.

83. (Currently Amended) The ~~compound~~ **pharmaceutical composition** of claim 80, where each of X¹ and X² is O.

84. (Currently Amended) The ~~compound~~ pharmaceutical composition of claim 80, wherein each of Y¹ and Y², independently, is -CH₂-, -O-, -N(R^a)-, or a bond.

85. (Currently Amended) The ~~compound~~ pharmaceutical composition of claim 80, wherein L is an unsaturated C₄₋₈ hydrocarbon chain containing at least one double bond and no triple bond, said unsaturated hydrocarbon chain being optionally substituted with C₁₋₂ alkyl, C₁₋₂ alkoxy, hydroxyl, -NH₂, -NH(C₁₋₂ alkyl), or -N(C₁₋₂ alkyl)₂, or -N(C₁₋₂ alkyl)₂.

86. (Currently Amended) The ~~compound~~ pharmaceutical composition of claim 85, wherein the double bond is in trans configuration.

87. (Currently Amended) The ~~compound~~ pharmaceutical composition of claim ~~1~~ 80, wherein A is phenyl, naphthyl, indanyl, or tetrahydronaphthyl.

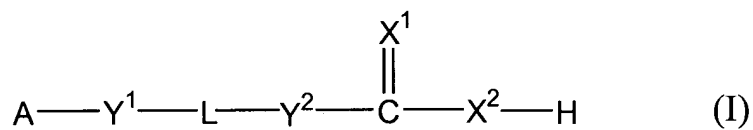
88. (Currently Amended) The ~~compound~~ pharmaceutical composition of claim 80, wherein A is phenyl optionally substituted with 1-3 substituents, each of which is indepenently selected from the group consisting of alkyl, alkenyl, hydroxyl, hydroxylalkyl, halo, haloalkyl, ~~or~~ and amino.

89. (Currently Amended) The ~~compound~~ pharmaceutical composition of claim 80, wherein L is an unsaturated C₄₋₈ hydrocarbon chain containing only double bonds in trans

configuration, said unsaturated hydrocarbon chain being optionally substituted with C₁₋₂ alkyl, C₁₋₂ alkoxy, hydroxyl, -NH₂, -NH(C₁₋₂ alkyl), or -N(C₁₋₂ alkyl)₂.

90. (Currently Amended) The ~~compound~~ pharmaceutical composition of claim 89, wherein X¹ is O; X² is O; and each of Y¹ and Y², independently, is -CH₂-, -O-, -N(R^a)-, or a bond.

91. (Previously Added) A compound of formula (I):



wherein

A is a cyclic moiety selected from the group consisting of C₃₋₁₄ cycloalkyl, 3-14 membered heterocycloalkyl, C₄₋₁₄ cycloalkenyl, 3-14 membered heterocycloalkenyl, aryl, and heteroaryl; the cyclic moiety being optionally substituted with alkyl, alkenyl, alkynyl, alkoxy, hydroxyl, hydroxylalkyl, halo, haloalkyl, amino, alkylcarbonyloxy, alkyloxycarbonyl, alkylcarbonyl, alkylsulfonylamino, aminosulfonyl, or alkylsulfonyl;

each of X¹ and X², independently, is O or S;

Y¹ is -CH₂-, -S-, -N(R^a)-, -N(R^a)-C(O)-O-, -O-C(O)-N(R^a)-, -N(R^a)-C(O)-N(R^b)-, -O-C(O)-O-, or a bond; each of R^a and R^b, independently, being hydrogen, alkyl, alkenyl, alkynyl, alkoxy, hydroxylalkyl, hydroxyl, or haloalkyl;

Y² is -CH₂-, -O-, -S-, -N(R^a)-, -N(R^a)-C(O)-O-, -O-C(O)-N(R^a)-, -N(R^a)-C(O)-N(R^b)-,

-O-C(O)-O-, or a bond;

L is a straight C₃₋₆ hydrocarbon chain containing at least one double bond, at least one triple bond, or at least one double bond and one triple bond; said hydrocarbon chain being substituted with C₁₋₄ alkyl, C₂₋₄ alkenyl, C₂₋₄ alkynyl, C₁₋₄ alkoxy, halo, amino, nitro, cyano, C₃₋₅ cycloalkyl, 3-5 membered heterocycloalkyl, monocyclic aryl, 5-6 membered heteroaryl, C₁₋₄ alkylcarbonyloxy, C₁₋₄ alkyloxycarbonyl, C₁₋₄ alkylcarbonyl, or formyl; and further being optionally interrupted by -O-, -N(R^c)-, -N(R^c)-C(O)-O-, -O-C(O)-N(R^c)-, -N(R^c)-C(O)-N(R^d)-, or -O-C(O)-O-; each of R^c and R^d, independently, being hydrogen, alkyl, alkenyl, alkynyl, alkoxy, hydroxylalkyl, hydroxyl, or haloalkyl;

or a salt thereof.

92. (Previously Added) The compound of claim 91, wherein X¹ is O.

93. (Previously Added) The compound of claim 91, wherein X² is O.

94. (Previously Added) The compound of claim 91, wherein each of X¹ and X² is O.

95. (Previously Added) The compound of claim 91, wherein each of Y¹ and Y², independently, is -CH₂-, -N(R^a)-, or a bond.

96. (Previously Added) The compound of claim 91, wherein L is an unsaturated C₄₋₆ hydrocarbon chain containing at least one double bond and no triple bond, said unsaturated hydrocarbon chain being substituted with C₁₋₂ alkyl, C₁₋₂ alkoxy, hydroxyl, -NH₂, -NH(C₁₋₂ alkyl), -N(C₁₋₂ alkyl)₂, -N(C₁₋₂ alkyl)₂, halo, or monocyclic aryl.

97. (Previously Added) The compound of claim 96, wherein said double bond is in trans configuration.

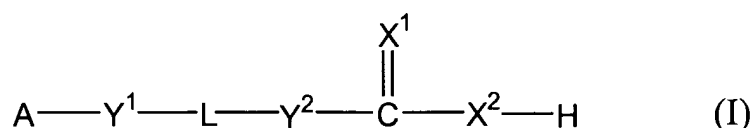
98. (Currently Amended) The compound of claim 91, wherein A is phenyl, naphthyl, indanyl, or ~~tetrahydronaphthyl~~ tetrahydronaphthyl.

99. (Previously Added) The compound of claim 91, wherein A is phenyl optionally substituted with alkyl, alkenyl, hydroxyl, hydroxylalkyl, halo, haloalkyl, or amino.

100. (Previously Added) The compound of claim 91, wherein L is an unsaturated C₄₋₆ hydrocarbon chain containing double bonds only in trans configuration, said unsaturated hydrocarbon chain being substituted with C₁₋₂ alkyl, C₁₋₂ alkoxy, hydroxyl, -NH₂, -NH(C₁₋₂ alkyl), -N(C₁₋₂ alkyl)₂, halo, or monocyclic aryl.

101. (Previously Added) The compound of claim 100, wherein X¹ is O; X² is O; and each of Y¹ and Y², independently, is -CH₂-, -N(R^a)-, or a bond.

102. (New) A compound of formula (I):



wherein

A is a cyclic moiety selected from the group consisting of C₃₋₁₄ cycloalkyl, 3-14 membered heterocycloalkyl, C₄₋₁₄ cycloalkenyl, 3-14 membered heterocycloalkenyl, aryl, and heteroaryl; the cyclic moiety being optionally substituted with alkyl, alkenyl, alkynyl, alkoxy, hydroxyl, hydroxylalkyl, halo, haloalkyl, amino, alkylcarbonyloxy, alkyloxycarbonyl, alkylcarbonyl, alkylsulfonylamino, aminosulfonyl, or alkylsulfonyl;

each of X¹ and X², independently, is O or S;

each of Y¹ and Y², independently, is -CH₂-, -O-, -S-, -N(R^a)-, -N(R^a)-C(O)-O-, -O-C(O)-N(R^a)-, -N(R^a)-C(O)-N(R^b)-, -O-C(O)-O-, or a bond; each of R^a and R^b, independently, being hydrogen, alkyl, alkenyl, alkynyl, alkoxy, hydroxylalkyl, hydroxyl, or haloalkyl;

L is a straight C₃₋₇ hydrocarbon chain optionally containing at least one double bond, at least one triple bond, or at least one double bond and one triple bond; said hydrocarbon chain being optionally substituted with C₁₋₄ alkyl, C₂₋₄ alkenyl, C₂₋₄ alkynyl, C₁₋₄ alkoxy, hydroxyl, halo, amino, nitro, cyano, C₃₋₅ cycloalkyl, 3-5 membered heterocycloalkyl, monocyclic aryl, 5-6 membered heteroaryl, C₁₋₄ alkylcarbonyloxy, C₁₋₄ alkyloxycarbonyl, C₁₋₄ alkylcarbonyl, or formyl; and further being optionally interrupted by -O-, -N(R^c)-, -N(R^c)-C(O)-O-,

-O-C(O)-N(R^c)-, -N(R^c)-C(O)-N(R^d)-, or -O-C(O)-O-; each of R^c and R^d, independently, being hydrogen, alkyl, alkenyl, alkynyl, alkoxy, hydroxylalkyl, hydroxyl, or haloalkyl; provided that when L contains two or more double bonds, the double bonds are not adjacent to each other; that when L contains three double bonds, said hydrocarbon chain is further substituted with C₁₋₄ alkyl, C₂₋₄ alkenyl, C₂₋₄ alkynyl, C₁₋₄ alkoxy, hydroxyl, halo, amino, nitro, cyano, C₃₋₅ cycloalkyl, 3-5 membered heterocycloalkyl, monocyclic aryl, 5-6 membered heteroaryl, C₁₋₄ alkylcarbonyloxy, C₁₋₄ alkyloxycarbonyl, C₁₋₄ alkylcarbonyl, or formyl; and further provided that when L contains zero double bonds, one double bond, or two conjugated double bonds and A is substituted phenyl or unsubstituted aryl, Y¹ is not a bond or CH₂, and Y² is not a bond or CH₂; or a salt thereof.